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NOTICE OF ALLOWANCE AND FEE(S) DUE

20991

11/04/2010

THE DIRECTY GROUP, INC. PATENT DOCKET ADMINISTRATION CA/LA1/A109 2230 E. IMPERIAL HIGHWAY EL SEGUNDO, CA 90245

EXAMINER				
FAULK, DEVONA E				
ART UNIT	PAPER NUMBER			

2614

DATE MAILED: 11/04/2010

۱	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/660,952	09/12/2003	Thomas H. James	PD-202107	7018

TITLE OF INVENTION: AUTOMATIC MEASUREMENT OF AUDIO PRESENCE AND LEVEL BY DIRECT PROCESSING OF AN MPEG DATA STREAM

APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$0	\$1510	02/04/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS <u>STATUTORY PERIOD CANNOT BE EXTENDED</u>. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as NO:

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II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)			Fe pa	e(s) Transmittal. Thi pers. Each additiona	is certificate cannot be used	or domestic mailings of the for any other accompanying ent or formal drawing, must
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THE DIRECTV GROUP, INC. PATENT DOCKET ADMINISTRATION CA / LA1 / A109			I Si ac tr	nereby certify that the lates Postal Service we dressed to the Mail ansmitted to the USP	tificate of Mailing or Transis Fee(s) Transmittal is bein with sufficient postage for fit Stop ISSUE FEE address TO (571) 273-2885, on the control of the co	g deposited with the United est class mail in an envelope above, or being facsimile date indicated below.
2230 E. IMPERIA EL SEGUNDO, O						(Depositor's name)
LE SECONDO,	C/1 702+3					(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	R	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/660,952	09/12/2003		Thomas H. James		PD-202107	7018
TITLE OF INVENTION: STREAM	: AUTOMATIC MEAS	SUREMENT OF AUDIO	O PRESENCE AND LE	VEL BY DIRECT F	PROCESSING OF AN MPI	EG DATA
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DU	E PREV. PAID ISSUI	E FEE TOTAL FEE(S) DUE	E DATE DUE
nonprovisional	NO	\$1510	\$0	\$0	\$1510	02/04/2011
EXAMI	NER	ART UNIT	CLASS-SUBCLASS			
FAULK, DE		2614	381-056000	–		
"Fee Address" indication (or "Fee Address" Indication form						
3. ASSIGNEE NAME AN PLEASE NOTE: Unle recordation as set forth (A) NAME OF ASSIG	ss an assignee is identi in 37 CFR 3.11. Comp NEE	ified below, no assignee sletion of this form is NO	data will appear on the T a substitute for filing a (B) RESIDENCE: (CI	patent. If an assign n assignment. 'Y and STATE OR C		document has been filed for
4a. The following fee(s) are submitted: Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies				eficiency, or credit any		
5. Change in Entity State a. Applicant claims	us (from status indicated SMALL ENTITY statu		☐ b. Applicant is no le	onger claiming SMAI	LL ENTITY status. See 37 C	CFR 1.27(g)(2).
NOTE: The Issue Fee and interest as shown by the re	Publication Fee (if requeecords of the United Sta	uired) will not be accepte tes Patent and Trademark	ed from anyone other than c Office.	the applicant; a regi	stered attorney or agent; or t	he assignee or other party in
Authorized Signature _				Date		
Typed or printed name				Registration N	No	
an application. Confidenti submitting the completed this form and/or suggestic Box 1450, Alexandria, Vi Alexandria, Virginia 2231	ality is governed by 35 application form to the ons for reducing this bur rginia 22313-1450. DO 3-1450.	U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the NOT SEND FEES OR	1.14. This collection is of depending upon the income Chief Information Off COMPLETED FORMS	estimated to take 12 ividual case. Any cocer, U.S. Patent and TO THIS ADDRESS	he public which is to file (an minutes to complete, includi mments on the amount of ti Trademark Office, U.S. Dep S. SEND TO: Commissioner displays a valid OMB contro	ng gathering, preparing, and ime you require to complete partment of Commerce, P.O. for Patents, P.O. Box 1450,



EL SEGUNDO, CA 90245

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20991 75	90 11/04/2010	EXAMINER		
THE DIRECTV GROUP, INC.			FAULK, D	EVONA E
PATENT DOCKET ADMINISTRATION			ART UNIT	PAPER NUMBER
CA / LA1 / A109 2230 E. IMPERIAL HIGHWAY			2614 DATE MAILED: 11/04/201	0

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 510 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 510 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	10/660 052	IAMES ET AL
Notice of Allowability	10/660,952 Examiner	JAMES ET AL. Art Unit
997	DEVONA E FALILIA	0044
	DEVONA E. FAULK	2614
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	olication. If not included will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>amendment filed on 9</u>	<u>9/8/10</u> .	
2. The allowed claim(s) is/are <u>1,2,4-8,10,11,13-17,28 and 30</u> .		
 3.		
2. ☐ Certified copies of the priority documents have		
3. ☐ Copies of the certified copies of the priority do	• • • • • • • • • • • • • • • • • • • •	
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	et be submitted.	
(a) \square including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTO-	948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the O	office action of
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	.84(c)) should be written on the drawir he header according to 37 CFR 1.121(d	ngs in the front (not the back) of d).
 DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT 		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5.	atent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	(PTO-413),
3 ☐ Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Dat 7. ⊠ Examiner's Amendr	e nent/Comment
Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. 🕅 Examiner's Stateme	ent of Reasons for Allowance
of Biological Material	9. ☐ Other	int of Reasons for Allowalide

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed 9/8/10 have been fully considered but they are not

persuasive.

2. The applicant agreed to an examiner's amendment to place the claims in

allowable form.

3. The applicant cancelled claims 29,31 and 33 to overcome the 112 rejection set

forth in the previous office action.

4. Claims 3,9,12,18,21,27,29,31 and 33 are cancelled.

EXAMINER'S AMENDMENT

5. An examiner's amendment to the record appears below. Should the changes

and/or additions be unacceptable to applicant, an amendment may be filed as provided

by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be

submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview

with Todd N. Snyder (Reg. NO. 41,320) on 9/29/10.

The claims are to be amended as follows:

Claims 19,20,22-26 and 32: CANCEL.

Claim 1 is to be amended to recite the following:

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A method of automatic measurement of audio presence and level by direct processing of a data stream representing an audio signal in a processor, comprising:

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- (a) extracting, in the processor, sub-band data from the data stream;
- (b) dequantizing and denormalizing, in the processor, the extracted sub-band data;
- (c) measuring, in the processor, an audio levd for the dequantized and denormalized

sub-band data without reconstructing the audio signal using channel characteristics;

(d) comparing, in the processor, the measured audio level against one or more

thresholds;

and

(e) triggering, in the processor, an alarm as determined by the comparing step (d), wherein the one or more thresholds are set to generate the alarm based on: (1) loss of the audio signal in the data stream or (2) when an average of the audio level in the data stream is too high or too low, in order to monitor the audio presence and level within the

Claim 10 is to be amended to recite the following:

data stream and to adjust the audio level as desired.

In a processor, an apparatus for automatic measurement of audio presence and level by direct processing of a data stream representing an audio signal, comprising:

- (a) means for extracting sub-band data from the data stream;
- (b) means for dequantizing and denormalizing the extracted sub-band data;
- (c) means for measuring an audio level for the dequantized and denormalized sub-band data without reconstructing the audio signal using channel characteristics;

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(d) means for comparing the measured audio level against one or more thresholds; and

(e) means for triggering an alarm as determined by the means for comparing (d),

wherein the one or more thresholds are set to generate the alarm based on: (1) loss of

the audio signal in the data stream or (2) when an average of the audio level in the data

stream is too high or too low, in order to monitor the audio presence and level within the

data stream and to adjust the audio level as desired.

Allowable Subject Matter

- 6. Claims 1,2,4-8,10,11,12-17,28 and 30 are allowed.
- 7. The following is an examiner's statement of reasons for allowance:
- 8. Regarding claims 1 and 10, prior art McDowell (US 6,931,370) discloses a method of automatic measurement of audio presence and level by direct processing of a data stream representing an audio signal, comprising:
- (a) extracting sub-band data from the data stream (column 3, lines 24-28; column 10, lines 35-45; implicit);
- (b) dequantizing and denormalizing the extracted sub-band data (step 126 Figure 9; column 11, lines 6-11);
- c) measuring an audio level for the dequantized and denormalized sub-band data without reconstructing the audio signal using channel characteristics (step 130 Figure 9; column 11, lines 58-62; characteristic is defined as a distinguishing feature, quality or property. The examiner asserts that the sub-band data reads on channel characteristics since the sub-band data is implicitly unique to its input signal); and

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(d) comparing the measured audio level against at least one or more thresholds (step 136 Figure 9; column 12, lines 3-8).

Prior art Friedman (US 5,337,041) discloses a means for triggering an alarm when the threshold is exceeded (column 10, line 65-column 11, line 7; specifically Friedman teaches of an alarm that is triggered when a modulated audio tone is detected as exceeding a preset threshold). Prior art Petrillo (US 6,429,779) discloses the concept of an alarm being generated based on the loss of a signal is well known in the art as taught by Petrillo (column 4, lines 16-25).

Regarding claims 1 and 10, the prior art or combination thereof fails to make obvious or disclose the invention as a whole and in particular, triggering, in the processor, an alarm as determined by the comparing step (d), wherein the one or more thresholds are set to generate the alarm based on when an average of the audio level in the data stream is too high or too low, in order to monitor the audio presence and level within the data stream and to adjust the audio level as desired.

Claims 2,4-8,11,13-17,28 and 30 are allowed due to dependency on claims 1 and 10.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DEVONA E. FAULK whose telephone number is (571)272-7515. The examiner can normally be reached on 8 am - 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on 571-272-7848. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Devona E. Faulk/ Primary Examiner, Art Unit 2614